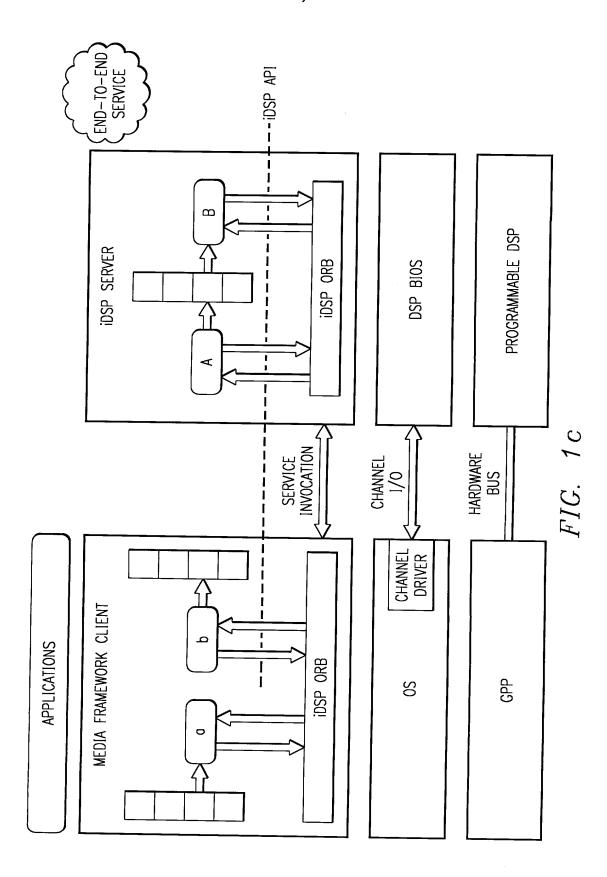
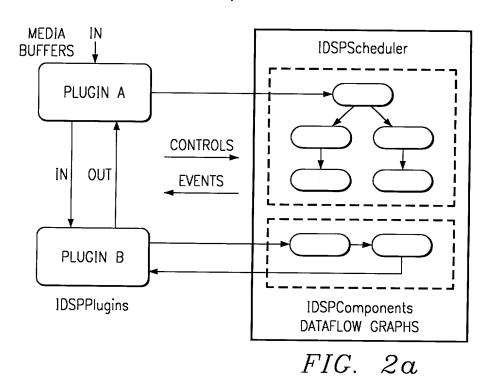
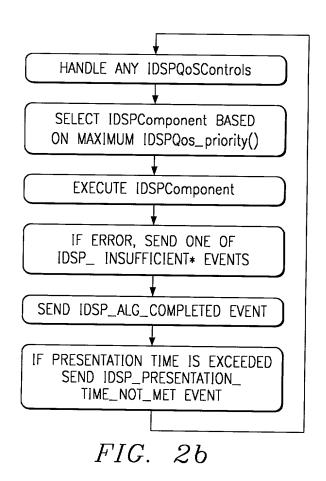
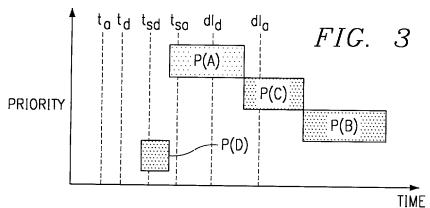


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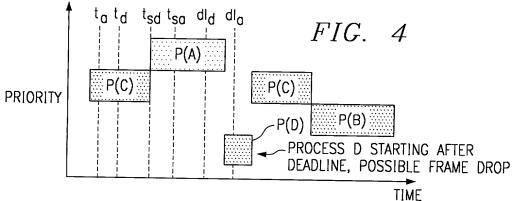






 $t_{SQ} = LAST$ POSSIBLE TIME FOR PROCESS A TO START AND STILL MAKES ITS DEADLINE

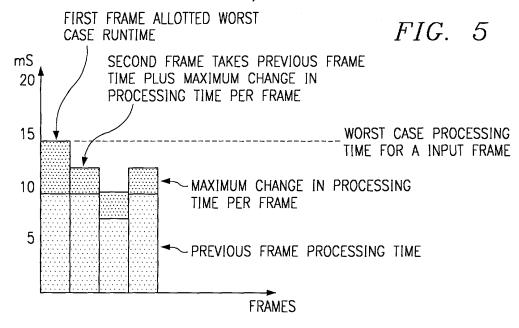
 t_{sd} = LAST POSSIBLE TIME FOR PROCESS D TO START AND STILL MAKE ITS DEADLINE

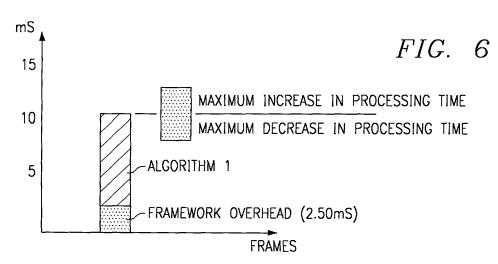


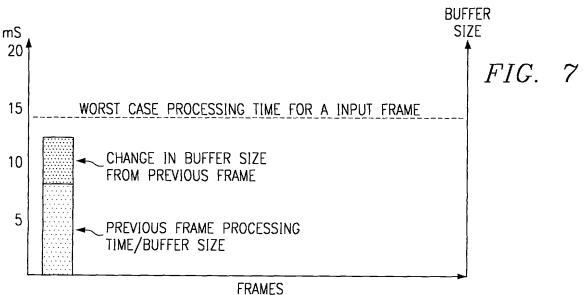
 $t_{SO} = LAST POSSIBLE TIME FOR PROCESS A TO START AND STILL MAKES ITS DEADLINE$

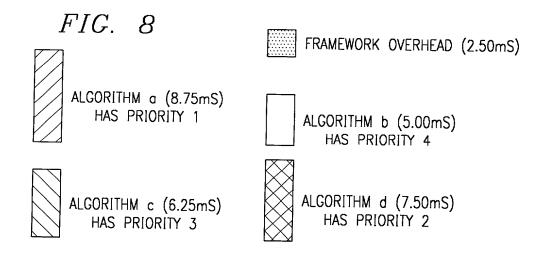
 t_{sd} = LAST POSSIBLE TIME FOR PROCESS D TO START AND STILL MAKE ITS DEADLINE

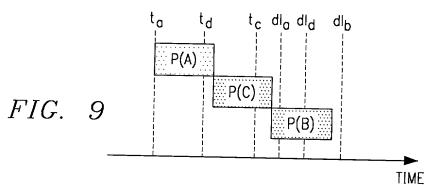








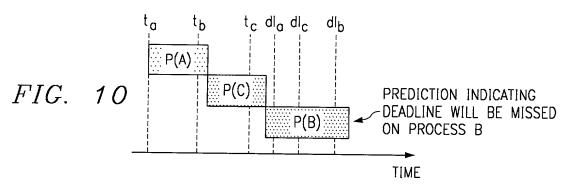




t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

dl; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

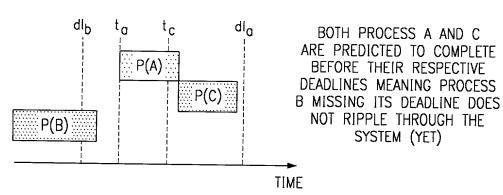
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME



t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

dl; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

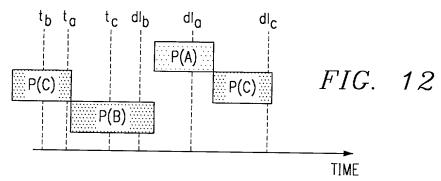
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME



t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

dl; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

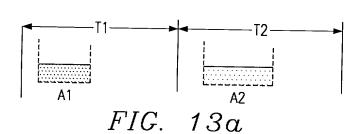
P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME FIG. 11

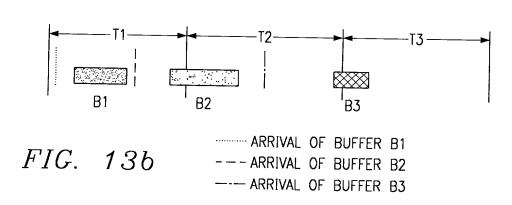


t; = TIME STAMP ARRIVAL OF EACH DATA FRAME FOR THE RESPECTIVE PROCESS

dl; = DEADLINE FOR FINISHING PROCESSING OF EACH RECEIVED DATA FRAME

P() = PREDICTION OF PROCESSING TIME FOR EACH RECEIVED DATA FRAME





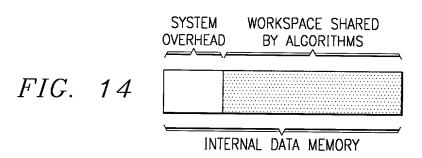
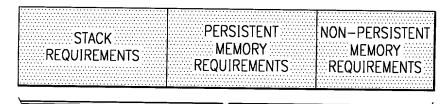


FIG. 15



ALGORITHM WORKSPACE COMPONENTS

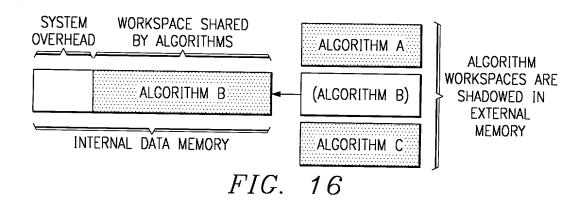


FIG. 17

STACK	PERSISTENT	NON-PERSISTENT
REQUIREMENTS	MEMORY	MEMORY
	NEQUIREMENTS	REQUIREMENTS

ALGORITHM WORKSPACE COMPONENTS TO TRANSFER ON CONTEXT SWITCH

	DEDCICTENT

······································	PERSISTENT NON-PERSISTENT
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	THE DLAITEDEMENTS

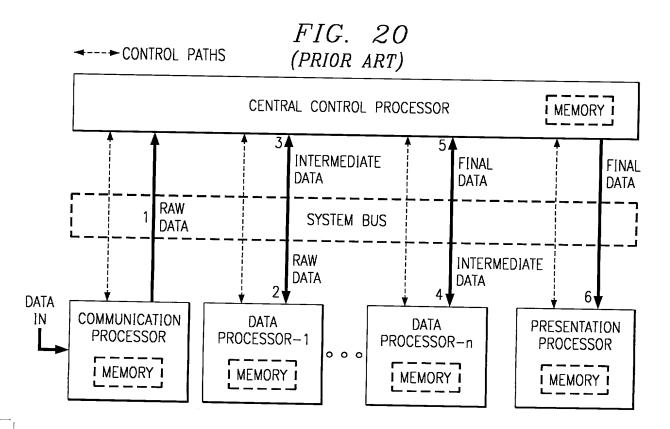
	REQUIREMENTS

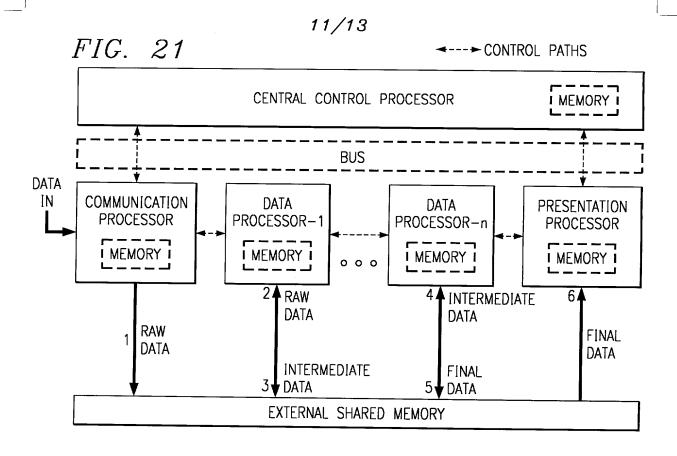
FIG. 18 ALGORITHM WORKSPACE COMPONENTS TO TRANSFER IN PRIOR TO ALGORITHM EXECUTION IF ALGORITHM REQUIRES CONSTANT TABLES (CONTEXT SWITCH IN ONLY)

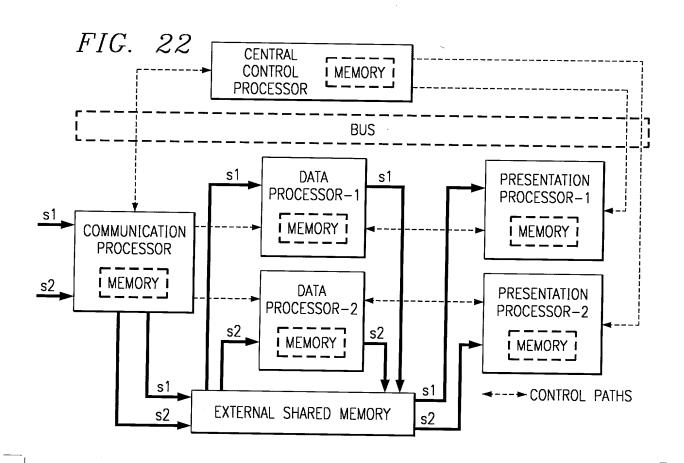
	DEDOLOGIC CONTRACTOR OF THE CO
***************************************	DEDCICTENT
SIACK	DEAD ONLY HOW PERSISIENT
DECLUDENCHIC	MEMORY
EMMINERAL DINCHALLIA TO THE PARTY	MEMORY
***************************************	······································
	F COUIREMENTS

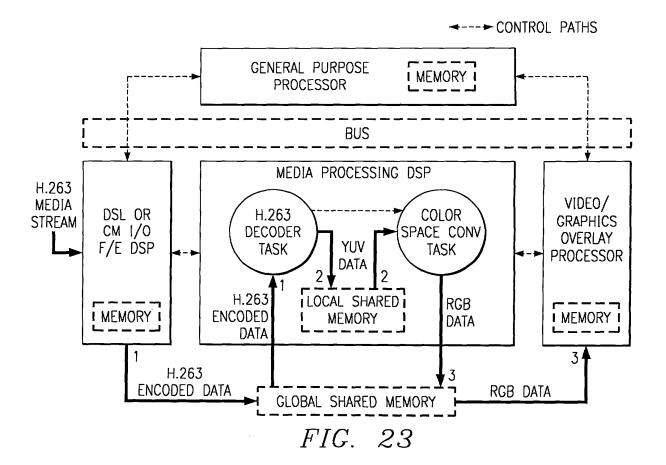
READ ONLY PERSISTENT MEMORY DOES NOT NEED TO BE TRANSFERRED OUT ON CONTEXT SWITCH. THEREFORE ALGORITHM PAGE CHANGE-OUT IS MORE EFFICIENT.

FIG. 19









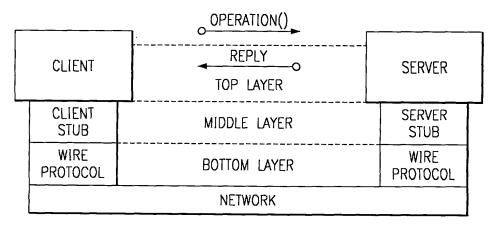


FIG. 24

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